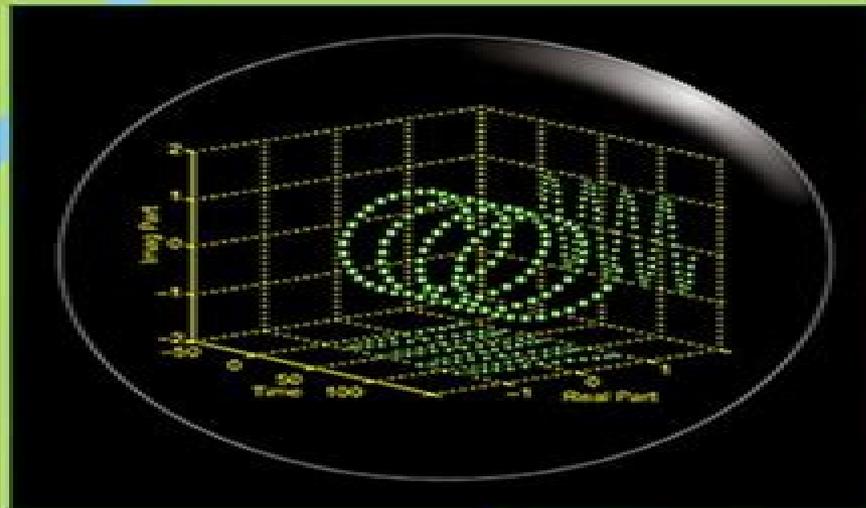


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principles are also presented in a lucid logical step by step approach As much as possible the authors avoid wordiness and detail overload that could hide concepts and impede understanding In recognition of requirements by the Accreditation Board for Engineering and Technology ABET on integrating computer tools the use of MATLAB is encouraged in a student friendly manner MATLAB is introduced in Appendix C and applied gradually throughout the book Each illustrative example is immediately followed by practice problems along with its answer Students can follow the example step by step to solve the practice problems without flipping pages or looking at the end of the book for answers These practice problems test students comprehension and reinforce key concepts before moving onto the next section Toward the end of each chapter the authors discuss some application aspects of the concepts covered in the chapter The material covered in the chapter is applied to at least one or two practical problems It helps students see how the concepts are used in real life situations Also thoroughly worked examples are given liberally at the end of every section These examples give students a solid grasp of the solutions as well as the confidence to solve similar problems themselves Some of hte problems are solved in two or three ways to facilitate a deeper understanding and comparison of different approaches Designed for a three hour semester course Digital Signal Processing A Primer with MATLAB is intended as a textbook for a senior level undergraduate student in electrical and computer engineering The prerequisites for a course based on this book are knowledge of standard mathematics including calculus and complex numbers

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